

ABSTRACT

An audio pre-amp and mid-band compressor circuit coupled to receive a program signal from a program signal source having a state-variable pre-amplifier responsive to a program input signal to provide a low range band-pass signal, a mid-range band-signal and a high range band-pass signal and for summing and scaling a low range band-pass signal, a mid-range band-signal and a high range band-pass signal providing a compensated signal. A voltage controlled amplifier circuit has a signal input terminal coupled to receive the compensated signal, and a control signal input coupled to receive at least a sample portion of the mid-range band-pass signal. The voltage controlled amplifier circuit responds to the amplitude of the sample portion of the mid-range band-pass signal to scale the compensated signal to provide a corrected output signal characterized to remain within a predetermined linear amplitude range at an output terminal.